

What is claimed is:

1. A base station comprising:
  - a packet classification unit configured to classify packets  
5 received/ transmitted from/ to a plurality of mobile stations into  
a quantitative guarantee type packet having a request value for  
communication quality or a relative guarantee type packet not  
having the request value; and
  - a transmission order controller configured to control a  
10 transmission order of the packets for every classified  
quantitative guarantee type packet and every classified relative  
guarantee type packet.
2. The base station of Claim 1, wherein the transmission order  
15 controller gives priority to the quantitative guarantee type  
packet over the relative guarantee type packet, in the  
transmission order.
3. The base station of Claim 1, wherein the transmission order  
20 controller controls the transmission order based on a quality of  
service class.
4. The base station of Claim 1, wherein the transmission order  
controller controls the transmission order based on radio quality  
25 between the base station and the plurality of mobile stations.
5. The base station of Claim 1, wherein the transmission order  
controller controls a transmission order of a plurality of  
quantitative guarantee type packets having same request value,  
30 such that communication quality for the request value becomes same,  
among a plurality of mobile stations receiving/ transmitting the  
quantitative guarantee type packets.
6. The base station of Claim 1, further comprising:  
35 a measurement unit configured to measure communication  
quality for the request value, wherein

the transmission order controller compares the request value with a measured value by the measurement unit, and controls the transmission order based on a comparison result.

5 7. The base station of Claim 1, further comprising:

a measurement unit configured to measure communication quality for the request value, wherein

the packet classification unit restrains storing the quantitative guarantee type packet in a transmission buffer for  
10 storing the packets, when a measured value by the measurement unit is more than the request value.

8. The base station of Claim 1, wherein the transmission order controller controls the transmission order such that a number of  
15 the quantitative guarantee type packets transmitted in unit time becomes equal to a number of packets satisfying the request value.

9. The base station of Claim 1, further comprising:

a radio resource assignment unit configured to assign radio  
20 resources for transmitting the packets to the packets, according to the transmission order.

10. The base station of Claim 9, wherein the radio resource assignment unit assigns the radio resources to the quantitative  
25 guarantee type packet based on the request value.

11. The base station of Claim 9, wherein the radio resource assignment unit assigns remaining radio resources to the quantitative guarantee type packet existing in a transmission  
30 buffer for storing the packets, after assigning the radio resources to the quantitative guarantee type packet and the relative guarantee type packet.

12. The base station of Claim 1, further comprising:

35 an attaching unit configured to attach the request value to a packet arrived from a core network, based on a quality of

service class for the packet in the core network, wherein  
the packet classification unit classifies a packet attached  
the request value into the quantitative guarantee type packet,  
and classifies a packet not attached the request value into the  
5 relative guarantee type packet.

13. The base station of Claim 1, further comprising:

a determination unit configured to determine a quality of  
service class in a core network for a packet, which has been  
10 received from a mobile station and is to be transmitted to the  
core network, based on whether the packet is the quantitative  
guarantee type packet or the relative guarantee type packet.

14. A radio communication system comprising:

15 a plurality of mobile stations; and  
a base station comprising:

a packet classification unit configured to classify  
packets received/ transmitted from/ to the plurality of mobile  
stations into a quantitative guarantee type packet having a  
20 request value for communication quality or a relative guarantee  
type packet not having the request value; and

a transmission order controller configured to  
control a transmission order of the packets for every classified  
quantitative guarantee type packet and every classified relative  
25 guarantee type packet.

15. A communication method comprising:

classifying packets received/ transmitted from/ to a  
plurality of mobile stations into a quantitative guarantee type  
30 packet having a request value for communication quality or a  
relative guarantee type packet not having the request value by  
a base station; and

controlling a transmission order of the packets for every  
classified quantitative guarantee type packet and every  
35 classified relative guarantee type packet by the base station.